SENCKENBERG
world of biodiversity

tbg translational biodiversity genomics

Job Announcement ref.#12-22005

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. The LOEWE Centre for Translational Biodiversity Genomics (LOEWE- TBG), https://tbg.senckenberg.de, is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology IME aiming to intensify biodiversity genomics in basic and applied research. We establish a new and taxonomically broad genome collection to study genomic and functional diversity across the tree of life and make genomic resources accessible for societal demand driven applied research.

For the **LOEWE funded Centre for Translational Biodiversity Genomics Centre (LOEWE-TBG)**, Project area **Functional Environmental Genomics**, Senckenberg invites applications for a

PhD Candidate (m/f/d)
Evolutionary Ecotoxicology
(part-time, 26 hours/week)

In this project, we want to prove the utility of a recently developed metazoan mutation rate test for application on potentially mutagenic substances in ecotoxicology. The goal is to standardise the test for routine application in national and international regulatory frameworks. In addition, the position offers the possibility to explore the evolutionary consequences of stressor exposition over multiple generations. The project is part of the LOEWE Centre for Translational Biodiversity Genomics (LOEWE-TBG, https://tbg.senckenberg.de/) and it is supported by excellent laboratory and bioinformatics facilities of the Centre.

The **Molecular Ecology** group (https://www.senckenberg.de/en/institutes/sbik-f/molecular- ecology/) is working on the genomic basis of adaptation to environmental change in populations. We investigate phenotypic and genomic variation in and between ecological key species in order to reveal functional similarities and differences of environmental tolerance across taxa and ecosystems. We combine state-of-art tools in genome sequencing, assembly and annotation with evolutionary theory, and laboratory and natural experiments to address current societal challenges like climate change. We actively develop conceptual frameworks and new bioinformatic tools to support our research.

Your tasks

- Carry out experimental work with the non-biting midge *Chironomus riparius* in a highly modern experimental facility
- Performing the ensuing bioinformatic analyses from whole genome resequencing data with existing pipelines
- Planning and organising international ring-tests

Your profile

- Master degree in a relevant area (Ecotoxicology, Population Genomics, Genetics, Molecular Ecology, Molecular Biology etc.
- Familiarity with bioinformatic (big) data analysis
- Good written and oral communication skills (English and/or German)
- Interest to collaboratively work in an interdisciplinary, international team
- Required skills (either proven or convincingly demonstrated willingness to acquire rapidly):
    - Analysis of huge amounts of NGS data
    - Experimental work with living animals

There will be a partner PhD project working on environmental influences on the mutation rate with the same organism (*Chironomus riparius*, a non-biting midge), allowing to share experimental and bioinformatical experience and experimental tasks.

What is awaiting you?

- An interesting task in a dynamic team of researchers in an international research group and joining the new LOEWE TBG excellence centre with its 20 new research groups
- A relevant and timely research topic for a PhD project at the interface of molecular technology development, ecology, and human health
- Flexible working hours – dual career service – leave of absence due to family reasons (certified by "auditberufundfamilie") – parent-child- office – annual special payment – company pension scheme – Senckenberg badge for free entry in museums in Frankfurt – leave of 30 days/year

Place of employment:	**Frankfurt am Main**
Working hours:	**Part time (65% position, 26 hours/week)**
Type of contract:	**3 years, starting as soon as possible**
Salary:	**according to the German collective agreement TV-H (pay grade E 13)**

The Senckenberg Gesellschaft für Naturforschung supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The employer is the Senckenberg Gesellschaft für Naturforschung.

How to apply

Please send your application, mentioning the reference of this job offer **(ref. #12-22005)** until **10 March 2022 (deadline),** by e-mail (attachment in a single pdf document) including a brief cover letter detailing your research interests and experience (1 page), a CV and copies of your certificates, transcripts and grades to:

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Zertifikat seit 2012
audit berufundfamilie

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